

**Amendments to the Claims:**

This listing will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Currently amended): A process for producing 2,2,3,3-tetrafluorooxethane, which comprises allowing tetrafluoroethylene to react with a formaldehyde generating compound ~~of formaldehyde generation source~~ in anhydrous hydrogen fluoride, ~~characterized in that the said~~ reaction being is carried out in the presence of polyfluoroalkylic acid or polyfluoroalkyl ester thereof, represented by the following general formula:



~~(where~~ wherein Rf is a polyfluoroalkyl group having 1-5 carbon atoms, and Rf' is a hydrogen atom or a polyfluoroalkyl group having 1-5 carbon atoms. ~~atoms~~).

Claim 2 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, wherein the carboxylic acid, represented by the general formula  $\text{RfCOORf'}$ , is  $\text{CF}_3\text{COOH}$ .

Claim 3 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, where the carboxylic acid ester, represented by the general formula  $\text{RfCOORf'}$ , is  $\text{CF}_3\text{COOCH}_2\text{CF}_2\text{CF}_3$ .

Claim 4 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, where the carboxylic acid ester, represented by the general formula  $R^fCOOR^f$ , is  $CF_3COOCH_2CF_3$ .